FIG. 1
PRIOR ART

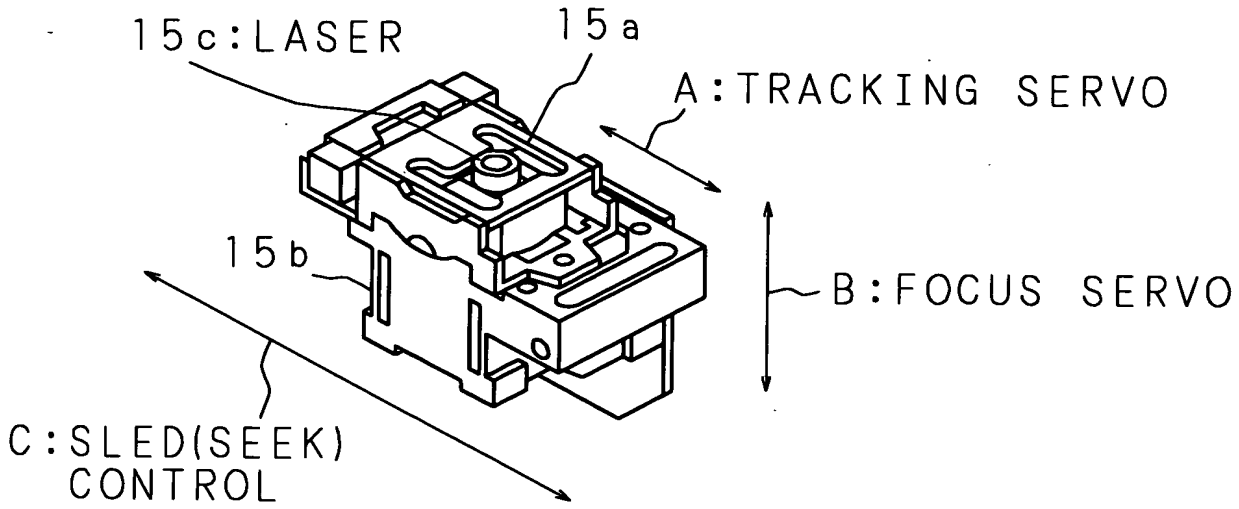

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FIG. 2A
PRIOR ART FOCUS SERVO

FIG. 2B
PRIOR ART FOCUS ERROR SIGNAL

FIG. 2C
PRIOR ART TRACKING SERVO

FIG. 2D
PRIOR ART TRACKING ERROR SIGNAL

FIG. 3A
PRIOR ART FOCUS SERVO

FIG. 3B
PRIOR ART FOCUS ERROR SIGNAL

FIG. 3C
PRIOR ART TRACKING SERVO

FIG. 3D
PRIOR ART TRACKING ERROR SIGNAL

FIG. 3E
PRIOR ART SLED CONTROL

START OF SLED CONTROL

END OF SLED CONTROL

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FIG. 4A
PRIOR ART FOCUS SERVO

FIG. 4B
PRIOR ART FOCUS ERROR SIGNAL

FIG. 4C
PRIOR ART TRACKING SERVO

FIG. 4D
PRIOR ART TRACKING ERROR SIGNAL

FIG. 4E
PRIOR ART SLED CONTROL

FIG. 5A
PRIOR ART

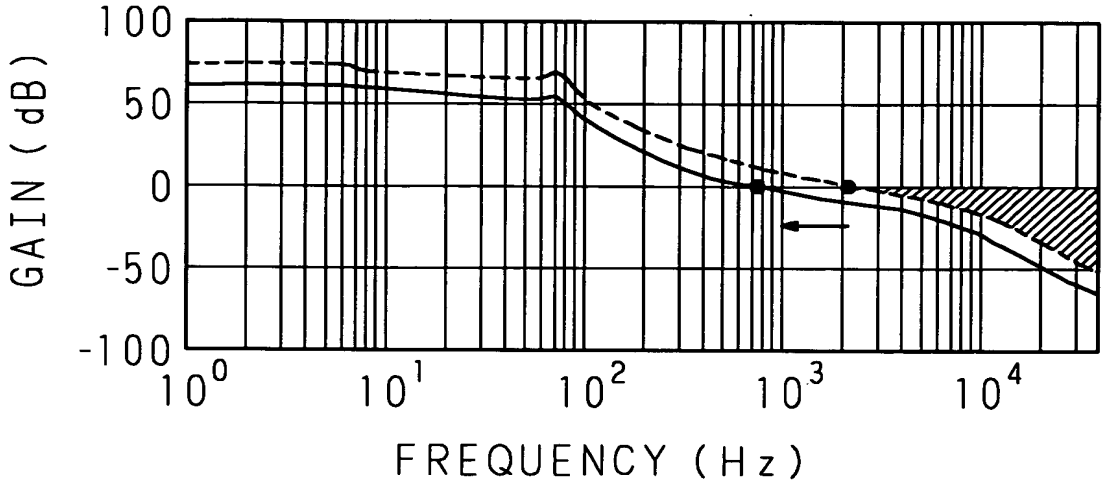

FIG. 5B
PRIOR ART

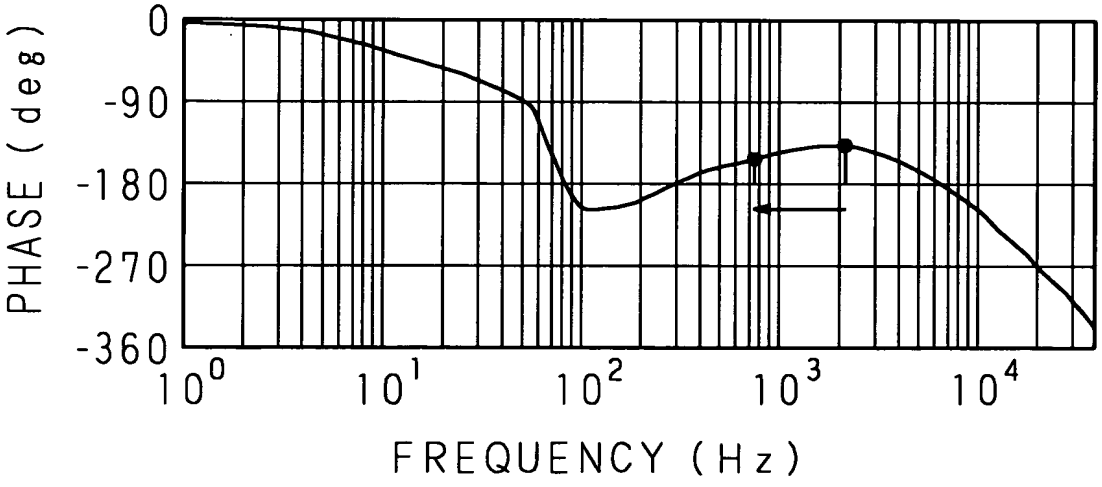

FIG. 6

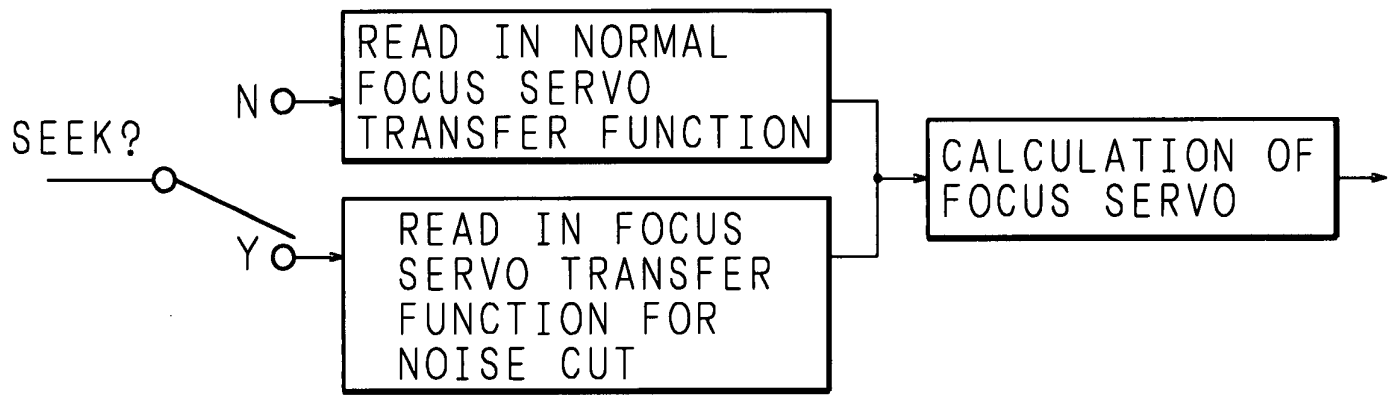
SEEK?
N
Y
READ IN NORMAL FOCUS SERVO TRANSFER FUNCTION
READ IN FOCUS SERVO TRANSFER FUNCTION FOR NOISE CUT
CALCULATION OF FOCUS SERVO

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FIG. 7

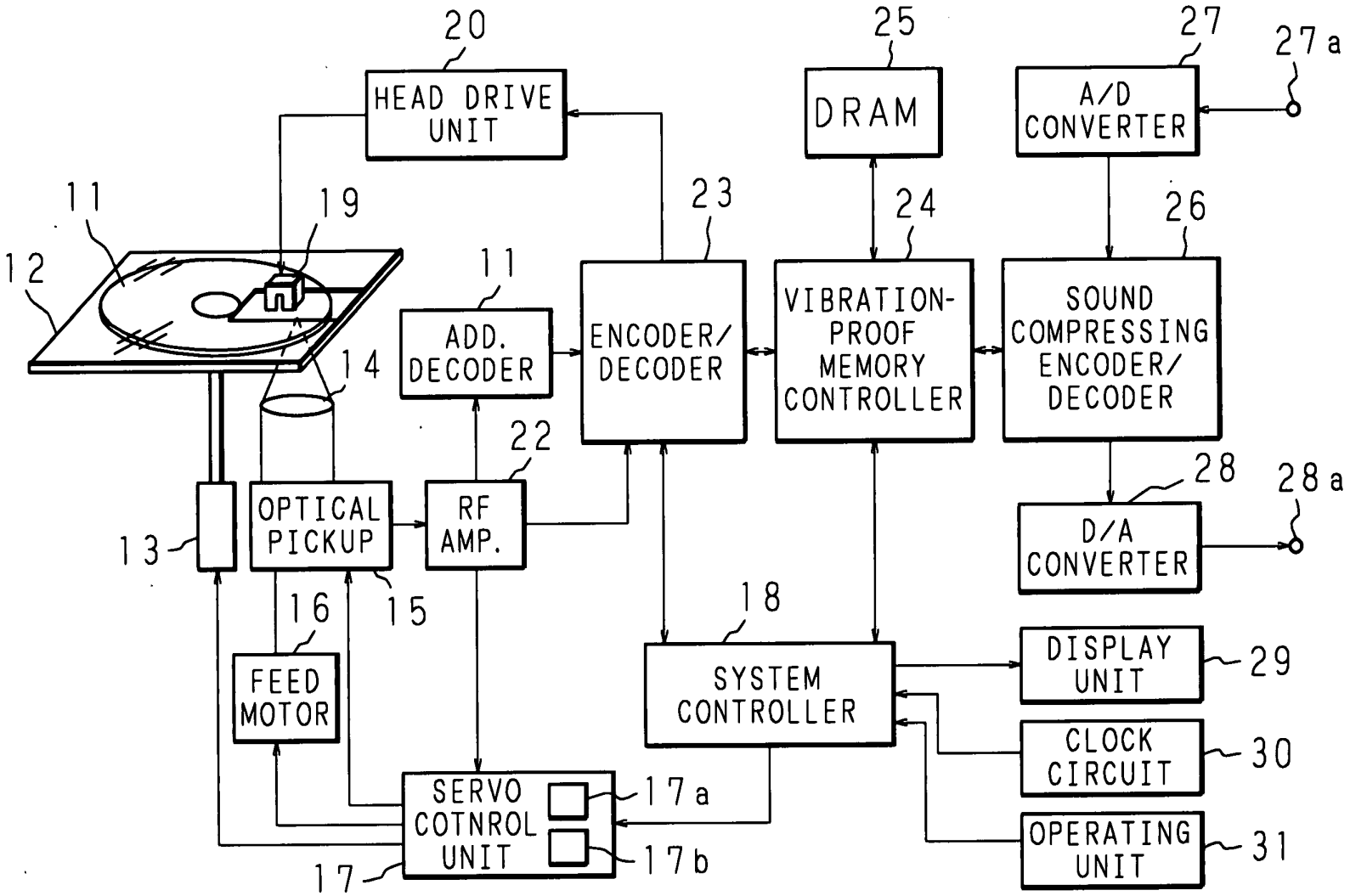

FIG. 8

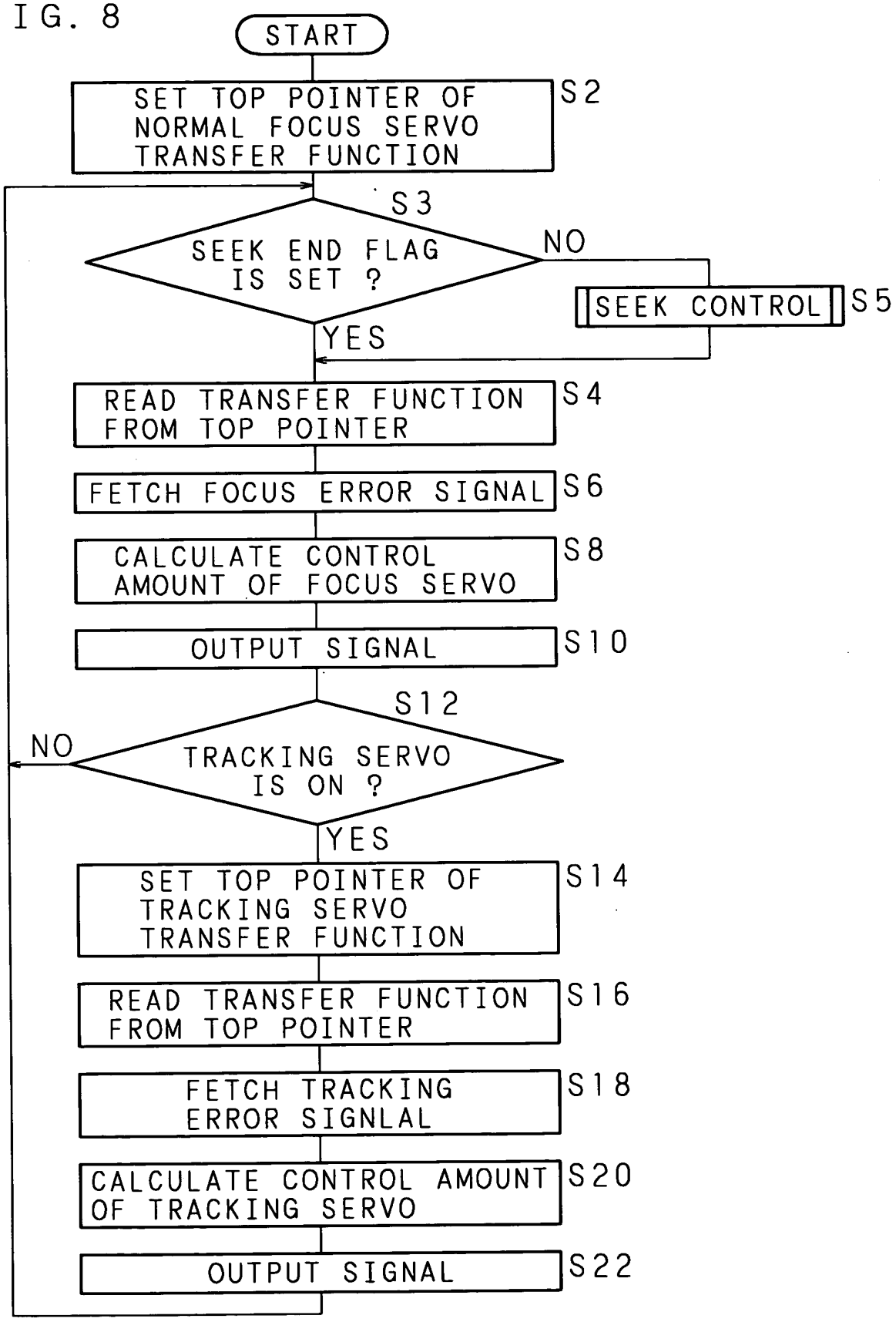
START
SET TOP POINTER OF NORMAL FOCUS SERVO TRANSFER FUNCTION
S2
S3
SEEK END FLAG IS SET ?
NO
SEEK CONTROL
S5
YES
READ TRANSFER FUNCTION FROM TOP POINTER
S4
FETCH FOCUS ERROR SIGNAL
S6
CALCULATE CONTROL AMOUNT OF FOCUS SERVO
S8
OUTPUT SIGNAL
S10
S12
NO
TRACKING SERVO IS ON ?
YES
SET TOP POINTER OF TRACKING SERVO TRANSFER FUNCTION
S14
READ TRANSFER FUNCTION FROM TOP POINTER
S16
FETCH TRACKING ERROR SIGNLAL
S18
CALCULATE CONTROL AMOUNT OF TRACKING SERVO
S20
OUTPUT SIGNAL
S22

FIG. 9

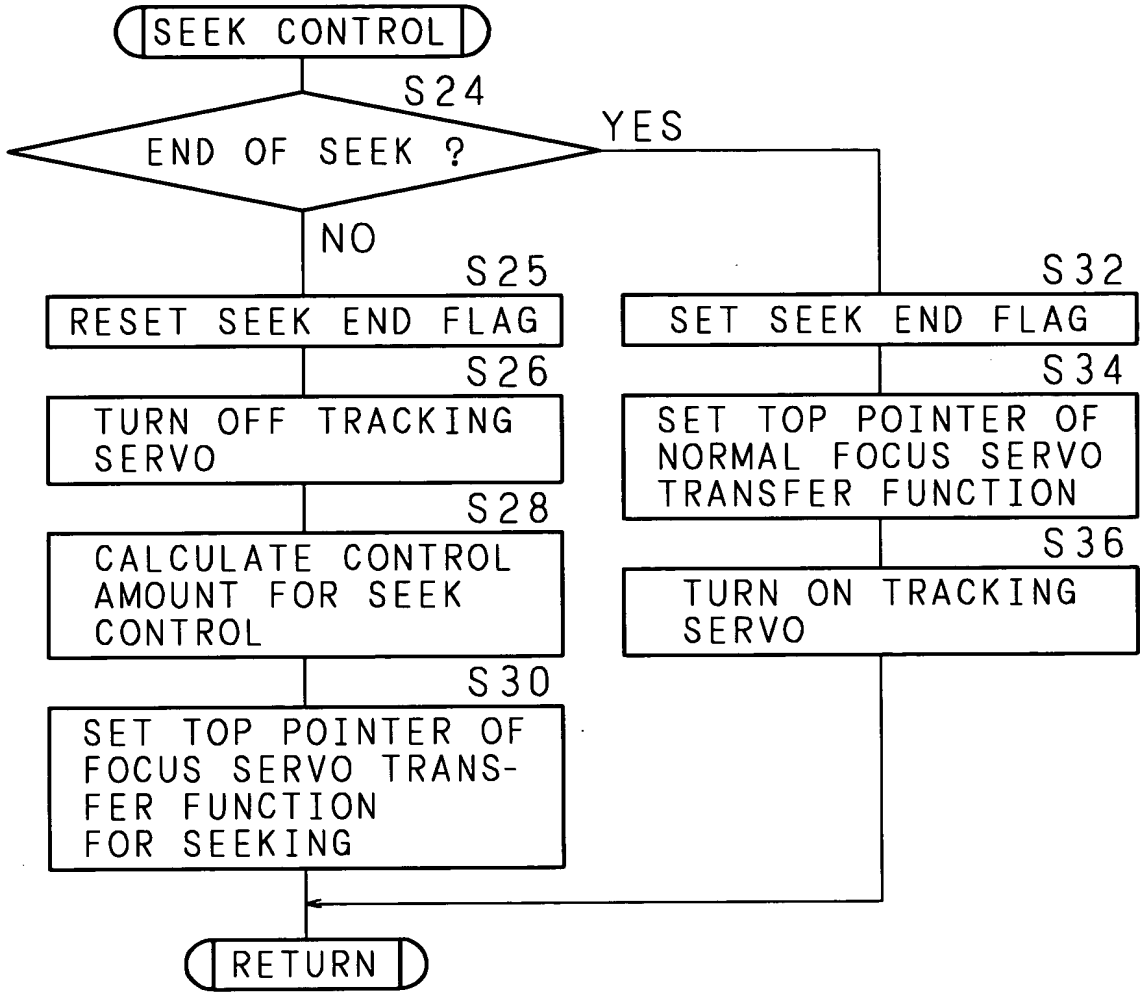
SEEK CONTROL
S24
END OF SEEK ?
YES
NO
S25
RESET SEEK END FLAG
S26
TURN OFF TRACKING SERVO
S28
CALCULATE CONTROL AMOUNT FOR SEEK CONTROL
S30
SET TOP POINTER OF FOCUS SERVO TRANSFER FUNCTION FOR SEEKING
S32
SET SEEK END FLAG
S34
SET TOP POINTER OF NORMAL FOCUS SERVO TRANSFER FUNCTION
S36
TURN ON TRACKING SERVO
RETURN

FIG. 10A

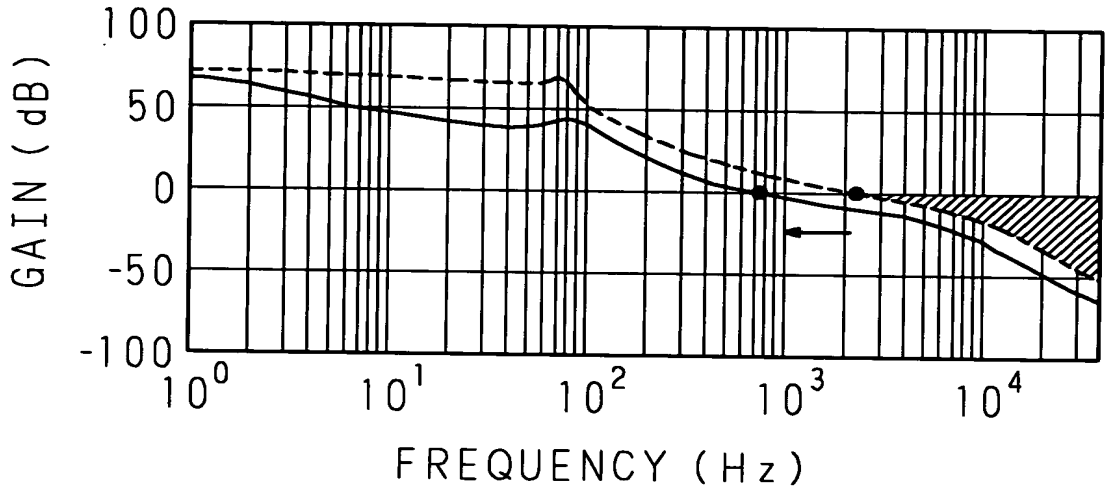
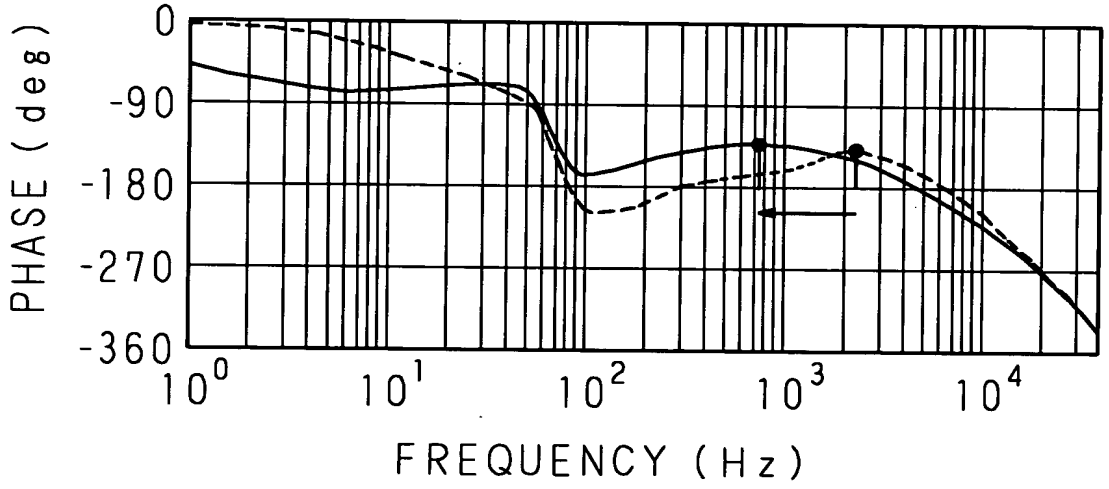
FIG. 10B